

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/819,371	03/28/2001	Kohji Egawa	31508	4334	
75	90 04/21/2006	EXAMINER			
John M. Collir	ns	CANELLA, KAREN A			
HOVEY, WILL Suite 400	IAMS, TIMMONS & CO	ART UNIT	PAPER NUMBER		
2405 Grand Blvd.			1643		
Kansas City, MO 64108			DATE MAILED: 04/21/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)					
Office Anti-		09/819,371	EGAWA, KOHJI					
	Office Action Summary	Examiner	Art Unit					
		Karen A. Canella	1643					
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address					
WHIC - Exter after - If NO - Failui Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE in a sions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. In period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	l. lely filed the mailing date of this communication. O (35 U.S.C. § 133).					
Status								
1)	Responsive to communication(s) filed on							
		-· action is non-final.						
	Since this application is in condition for allowar		secution as to the merits is					
,—	closed in accordance with the practice under E							
Dispositi	on of Claims							
4)	Claim(s) 60-72 is/are pending in the application	1						
	4a) Of the above claim(s) is/are withdray		•					
	Claim(s) <u>60,62-68 and 71</u> is/are allowed.	·						
	Claim(s) 69 and 70 is/are rejected.		•					
_	Claim(s) 61 and 72 is/are objected to.							
·=	Claim(s) are subject to restriction and/or	r election requirement.						
	on Papers	·						
	•							
	The specification is objected to by the Examine							
10)[The drawing(s) filed on is/are: a) acce							
	Applicant may not request that any objection to the							
44)[] •	Replacement drawing sheet(s) including the correcti							
' ')	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.					
Priority u	inder 35 U.S.C. § 119	•	•					
_	Acknowledgment is made of a claim for foreign ☐ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).					
	1. Certified copies of the priority documents	s have been received.						
	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the prior		·					
	application from the International Bureau	ı (PCT Rule 17.2(a)).						
* S	ee the attached detailed Office action for a list	of the certified copies not receive	d.					
			·					
Attachment		_						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date.								
3) Infom	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date							

Application/Control Number: 09/819,371

Art Unit: 1643

DETAILED ACTION

Claims 60, 61, 64-72 have been amended. Claims 60-72 are pending and under consideration.

Text of title 35, U.S. code not found in this action, can be found in a prior action.

Claims 61, 70 and 72 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 61 recites "cancer cell specific HLA-F antigen is obtained by expressing DNA comprising SEQ ID NO:3". Claim 70 recites "cancer cell specific HLA-F antigen is obtained by expressing DNA comprising SEQ ID NO:2". Claim 72 recites "cancer cell specific HLA-F antigen is obtained by expressing DNA comprising SEQ ID NO:1". Independent claims 60, 69 and 71 require the HLA-F antigen of EQ ID NO:6, SEQ ID NO:3 and SEQ ID NO:4. It is unclear how claims 61, 70 and 72 further limit claims 60, 69 and 71. The scope of claims 62, 70 and 72 appears to be the same as the scope of claims 60, 69 and 71, respectively.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in
- (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent,; or
- (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for the purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 69 and 70 are rejected under 35 U.S.C. 102(e) as being anticipated by Morin et al (WO 01/75177, priority to April 3, 2000).

Application/Control Number: 09/819,371

Art Unit: 1643

Claim 69 is drawn to a method of diagnosing a cancer that is non-specific to various organs comprising the steps of contacting a cancer cell specific HLA-F antigen comprising SEQ ID NO:5 with the body fluid of a subject and detecting the formation of an immune complex with antibodies in said body fluid.

Morin et al disclose the ovarian cancer antigen of SEQ ID NO:82 (page 13, line 19) which is identical to the instant SEQ ID NO:5. Morin et al teach (page 16, lines 1-7)

In addition, since rapid tumor cell destruction often results in autoantibody generation, the ovarian tumor markers of the invention may be used in serological assays (e. g., an ELISA test of a subject's serum) to detect autoantibodies against ovarian tumor markers in a subject. Ovarian tumor marker polypeptide-specific autoantibody levels that are at least about 3-fold higher (and preferably at least 5-fold or 7-fold higher, most preferably at least 10-fold or 20-fold higher) than in a control sample are indicative of ovarian cancer.

The disclosure of an ELISA test fulfills the specific embodiment requiring the application of a secondary antibody. The claim objective of diagnosing cancer that is non-specific to various organs fails to exclude the detection of ovarian cancer because the active method disclosed by Morin et al comprises the same steps as the instant method, the only difference being Morin et al did not disclose SEQ ID NO:82 as a "universal" cancer antigen. Further, Morin et al fulfills the specific limitation of claim 70 because the HLA-F antigen of claim 70 is obtained by the process of expressing the DNA of SEQ ID NO:2 and the M.P.E.P. (2113) states

PRODUCT-BY-PROCESS CLAIMS ARE NOT LIMITED TO THE
MANIPULATIONS OF THE RECITED STEPS, ONLY THE STRUCTURE
IMPLIED BY THE STEPS

Thus the cancer cell specific antigen obtained by expressing the DNA sequence of SEQ ID NO:2 is the same as the cancer cell antigen of SEQ ID NO:82 as disclosed by Morin et al.

Art Unit: 1643

All other rejections and objections as set forth in the previous Office action are withdrawn in light of applicants amendments.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karen A. Canella whose telephone number is (571)272-0828. The examiner can normally be reached on 11 am to 10 pm, except Wed, Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Larry Helms can be reached on (571)272-0832. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Karen A. Canella, Ph.D.

4/14/2006

KAREN A. CÁNEĽLA PH.D PRIMARY EXAMINER Appli Appli Appli Appli Appli Appli Appli Appli Appli Appli

Sequence Seq

US-10-741-600-939 US-10-741-600-940 US-10-210-172-160 US-10-210-172-160 US-10-093-463-80 US-10-093-463-80 US-10-073-300-6 US-10-073-300-5 US-10-073-300-5 US-10-073-257-6 US-10-073-300-5 US-10-073-300-5 US-10-073-300-5 US-10-073-300-5 US-10-073-300-5 US-10-085-31-5 US-10-08-511-5 US-10-108-511-2 US-10-108-511-2 US-10-108-511-2 US-10-085-198-72

Sequence 2, Appli Sequence 72, Appl Sequence 156, App

ALIGNMENTS

GenCore version 5.1.7 Copyright (c) 1993 - 2006 Biocceleration Ltd

```
April 7, 2006, 12:59:38; Search time 91.7626 Seconds (without alignments) 1247.624 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                        1496
1 GSHSLRYFSTAVSRPGRGEP.....QRYTCHVQHEGLPQPLILRW
                                                                                                                                                                                                                                                                                                                                                                                                                       Published Applications AA Main: *

.: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep: *

:: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep: *

:: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep: *

:: /cgn2_6/ptodata/1/pubpaa/US108_PUBCOMB.pep: *

:: /cgn2_6/ptodata/1/pubpaa/US108_PUBCOMB.pep: *

:: /cgn2_6/ptodata/1/pubpaa/US11_PUBCOMB.pep: *
                                                                                                                                                                                                                                                            Cotal number of hits satisfying chosen parameters:
                                                                                                                                                                                                                           1867569 seqs, 417829326 residues
                                                                                                                                                                                                                                                                                                                                                   Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
 - protein search, using sw model
                                                                                                                                                                        BLOSUM62
Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                                                                                              Minimum DB seq length: 0
Maximum DB seq length: 200000000
                                                                                                      US-09-819-371-5
                                                                                                      Title:
Perfect score:
                                                                                                                                                                         Scoring table:
OM protein
                                                                                                                                          Sequence:
                                                                                                                                                                                                                             Searched:
                                                                                                                                                                                                                                                                                                                                                                                                                           Database
                                Run on:
                                                                                                                                                                                                                                                                                                                                                                      Attachment
                                                               hIHO
                                                                                                                                                           9000
                                                                                                                                                                                                                                                                                                9
```

of C

RESULT 1 US-09-819-371-5 Squence 5, Application US/09819371 Spublication No. US20040053344A1 GENERAL INFORMATION: TITLE OF INVENTION: Cancer Cell-Specific HLA-F Antigen and a Diagnostic Method TITLE OF INVENTION: Using Thereof STILE REPRESENCE: 2002-03-15 NUMBER OF SEQ ID NOS: 6 SOFTWARE: PatentIn version 3.0 SEQ ID NO 5 LENGTH: 274 TYPE: PRT ORGANISM: Homo sapiens US-09-819-371-5	Ouery Match 100.0%; Score 1496; DB 3; Length 274; Best Local Similarity 100.0%; Pred. No. 1e-135; Matches 274; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	CY 1 GSHSLRYFSTAVSRPGRGEPRYIAVEYVDDTQFLRFDSDAAIPRMEPREPWVEQEGPQYW 60	Qy 61 EWITGYAKANAQIDRVALENLLERYNQSEAGSHTLQGANGCDMGPDGRLLRGYHQHAYDG 120	QY 121 KDYISIARDIASWTAADTVAQITQRFYEABEYABEFRTYLEGECLEILRRYLENGKETLQ 180	Qy 181 RADPPKAHVAHHPISDHBATLRCWALGFYPABITLTWQRDGBBQTQDTBLVBTRPAGDGT 240	Oy 241 FOKWAAVVVPSGEBCRYTCHVQHBGLPQPLILRW 274	US-10-257-021-82 US-10-257-021-82 Sequence-827-Application US/10257021 Publication Wo. US20030211498A1 GENERAL INFORMATION:
							A

Sequence 624, App Sequence 1887, Ap Sequence 57085, Ap Sequence 1431, Ap Sequence 128, App Sequence 101, App Sequence 162, App Sequence 1257, Ap Sequence 1257, Ap Sequence 1260, App Sequence 1260, App

> 1491 1221 1221 1205 1205 1205 11205 1196 1196

US-09-819-371-5
US-10-257-021-82
US-10-408-7654-1887
US-10-469-763-57085
US-10-408-7654-1887
US-09-819-371-4
US-09-819-371-4
US-10-631-467-728
US-10-287-436A-162
US-10-287-436A-1267
US-10-287-436A-1267
US-10-287-436A-1267
US-10-741-601-388
US-10-741-601-325

Sequence 5, Appli Sequence 82, Appl

Description

SUMMARIES

Length

Result No. APPLICANT: Morin, Patrice J.

Sequence 3 Sequence 3 Sequence 1 Sequence 1 Sequence 2 Sequence 2 Sequence 3 Sequence 3 Sequence 3 Sequence 3

Sequence

```
ö
                                                                                                                                                                                                                                                               240
                                                                                                                                                         121 KDYISLABDLASWTAADTVAQITQRFYBABBYABBFRTYLEGBCLBLLRRYLENGKETLQ 180
                                                                                                                                                                                                       142 KDYISLNEDLRSWTAADTVAQITORFYEAEBYAEBPRTYLEGECLELLRRYLENGKETLO 201
                                                                                                                                                                                                                                                                                                          261
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         82 EWTTGYAKANAQTDRVALRNÍLRRYNQSEAGSHTLQGMNGCDMGPDGRLLRGYHQHAYDG 141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          KDYISLNEDLRSWTAADTVAQITQRPYEAEEYAEEPRTYLEGECLELLRRYLENGKETLQ 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          142 KDYISLNEDLIRSWTAADTVAQITQRFYEABEYABEFRTYLEGECLELLRRYLENGKETLQ 201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   261
     81
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      22 GSHSLRYFSTAVSRPGRGEPRYIAVBYVDDTQFLRFDSDAAIPRMEPREPWVEQEGPQYW 81
                                                                                      BWITGYAKANAQTDRVALRNILLRRYNQSEAGSHTLQGMNGCDMGPDGRLLLRGYHQHAYDG
                                                                                                                                                                                                                                                                                          202 RADPPKAHVAHHPISDHEATLRCWALGFYPAEITLIWQRDGEEQTQDTELVETRPAGDGT
  22 GSHSLRYFSTAVSRPGRGEPRYIAVEYVDDTQFLRFDSDAAIPRMEPREPWVEQEGPQYW
                                                                                                                                                                                                                                                          RADPPKAHVAHHPISDHEATLRCWALGFYPAEITLTWQRDGEEQTQDTELVETRPAGDGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              202 RADPPKAHVAHHPISDHEATLRCWALGFYPAEITLTWQRDGEEQTQDTELVETRPAGDGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         61 EWTTGYAKANAQTDRVALRNILIRRYNQSEAGSHTLQGMNGCDMGPDGRLLRGYHQHAYDG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   181 RADPPKAHVAHHPISDHEATLRCWALGFYPAEITLTWQRDGEEQTQDTELVETRPAGDGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 GSHSLRYPSTAVSRPGRGEPRYIAVEYVDDTQFLRFDSDAAIPRMEPREPWVEQEGPQYW
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Ghosh, Soumitra S.
APPLICANT: Ghosh, Soumitra S.
APPLICANT: Tahay, Edin D.
APPLICANT: Zhang, Baing
APPLICANT: Tahay, Baing
APPLICANT: Taylor, Steven W.
APPLICANT: Glenn, Gary M.
APPLICANT: Glenn, Gary M.
APPLICANT: Warnock, Dale B.
TITLE OF INVENTION: IDENTIFIED IN THE MITOCHONDRIAL PROTEOME
FILE REPERENCE: 660088.465
CURRENT APPLICATION NUMBER S.
CURRENT FILING DATE: 2003-04-04
NUMBER OF SEQ ID NOS: 3077
SOUTH NO 1887
LENGTH: 442
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DB 4; Length 442;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            100.0%; Score 1496; DB 4;
100.0%; Pred. No. 2e-135;
tive 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                              262 FQKWAAVVVPSGEEQRYTCHVQHEGLPQPLILRW 295
                                                                                                                                                                                                                                                                                                                                                                241 POKWAAVVVPSGEEORYTCHVOHEGLPOPLILRW 274
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      241 FOKWAAVVVPSGEEORYTCHVQHEGLPOPLILRW 274
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    262 PQKWAAVVVPSGEEQRYTCHVQHEGLPQPLILRW 295
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 1887, Application US/10408765A Publication No. US20040101874A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ; Sequence 57085, Application US/10450763; Publication No. US20050196754A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity 100.
Matches 274; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-408-765A-1887
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-10-408-765A-1887
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 5
US-10-450-763-57085
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             121
                                                     19
                                                   ઠે
                                                                                        셤
                                                                                                                                           ઠ
                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                       à
                                                                                                                                                                                                                                                                                                  ď
                                                                                                                                                                                                                                                                                                                                                           δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Genox Research Inc.
TITLE OF INVENTION: Method for testing for broncheal asthma, or chronic obstructive prints OF INVENTION: disease
FILE REPERBNCE: 3462.1005-000
CURRENT APPLICATION NUMBER: US/10/631,467
CURRENT PILING DATE: 2003-07-31
PRIOR APPLICATION NUMBER: JP 2003-077212
PRIOR APPLICATION NUMBER: JP 2003-0312
PRIOR PILING DATE: 2002-08-06
NUMBER OF SEQ ID NOS: 2086
SOFTWARE: Patentin version 3.1
SEQ ID NO 624
LENGTH: 362
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              61 EWITGYAKANAQTDRVALRNILLRRYNQSBAGSHTLQGMNGCDMGPDGRILLRGYHQHAYDG 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              82 EWITIGYAKANAQIDRVALRINILIRRYNQSBAGSHILQGANGCDMGPDGRILRGYHQHAYDG 141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    142 KDYISLNEDLASWTAADTVAQITQRFYEAEEFAEFRTYLEGECLELLRRYLENGKETLQ 201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RADPPKAHVAHHPISDHEATLRCWALGFYPAEITLTWQRDGEEQTQDTELVETRPAGDGT 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        22 GSHSLRYFSTAVSRPGRGEPRYIAVEYVDDTQFLRFDSDAAIPRMEPREPWVEQEGPQYW 81
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 GSHSLRYFSTAVSRPGRGEPRYIAVEYVDDTQPLRFDSDAAIPRMEPREPWVEQRGPQYW 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    KDYISLNEDLRSWTAADTVAQITQRFYEAERYAEEFRTYLEGECLELLRRYLENGKETLQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 GSHSLRYPSTAVSRPGRGEPRYIAVEYVDDTQFLRFDSDAAIPRMEPREPWVEQEGPQYW
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         100.0%; Score 1496; DB 4; Length 362; 100.0%; Pred. No. 1.5e-135; Live 0; Mismatches 0; Indels 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            100.0%; Score 1496; DB 5; Length 362; 100.0%; Pred. No. 1.5e-135; tive 0; Mismatches 0; Indels 0.
                APPLICANT: Plear, Ellen S.
APPLICANT: Hough, Colleen D.
TITLE OF INVENTION: TUMOR MARKERS IN OVARIAN CANCER FILE REFERENCE: 14014.0369U2
CURRENT APPLICATION NUMBER: US/10/257,021
CURRENT FILING DATE: 2002-10-03
FRIOR PILING DATE: 2001-04-03
FRIOR PILING DATE: 2000-04-03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           262 FQKWAAVVVPSGEEQRYTCHVQHBGLPQPLILRW 295
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 POKWAAVVVPSGEEQRYTCHVQHEGLPQPLILRW 274
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 624, Application US/10631467
Publication No. US20050208496A1
GENERAL INFORMATION:
Sherman-Baust, Cheryl A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity 100.0
Matches 274; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Best Local Similarity 100.
Matches 274; Conservative
                                                                                                                                                                                                                                                                                                                                                                                TYPE: PRT
CORGANISM: Homo sapiens
US-10-257-021-82
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ORGANISM: Homo sapiens
US-10-631-467-624
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-10-631-467-624
                                                                                                                                                                                                                                                                                                                             SEQ ID NO 82
LENGTH: 362
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             202
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local &
```

쉽 ò 셤 ò a ò 셤 à